

RADAR APPARATUS

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ABSTRACT OF THE DISCLOSURE

Disclosed is a radar apparatus which receives a  
transmitted signal reflected from an object by switching  
10 between a plurality of antennas, wherein the plurality of  
antennas are divided into a plurality of groups, and at  
least one of the plurality of antennas contained in each  
of the groups is a common antenna. The radar apparatus  
comprises: a selector switch section having a plurality  
15 of selector switches each for sequentially and  
selectively switching output terminals of the plurality  
of antennas and the common antenna contained in a  
corresponding one of the groups for connection to an  
input terminal; a plurality of channels each having an  
20 A/D converter and a downconverting section for  
downconverting a received signal that has been input from  
each of the antennas to the input terminal via a  
corresponding one of the plurality of selector switches;  
and a digital signal processing section for receiving an  
25 output from the A/D converter of each of the channels,  
wherein the digital signal processing section applies  
prescribed processing to detect the distance to or the  
relative velocity of the object.